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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,207	03/15/2004	Jiahn-Chang Wu	WU-9305	8555

7590 09/14/2006
Hung Chang Lin
8 Schindler Ct.
Silver Spring, MD 20903

EXAMINER

NEGRON, ISMAEL

ART UNIT	PAPER NUMBER
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2875

DATE MAILED: 09/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/800,207

Applicant(s)

WU, JIAHN-CHANG

Examiner

Ismael Negron

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 April 2006.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-7 is/are rejected.
7) ☒ Claim(s) 4 and 7 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 15 March 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on April 19, 2006 has been entered. Claims 1 and 5 have been amended. No claim has been cancelled, or added. Claims 1-7 are still pending in this application, with Claim 1 being the only independent claim.

Information Disclosure Statement

2. The listing of references in the specification (Figure 1) is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "20" has been used to designate different parts in different embodiments (i.e. a light bulb having two light emitting devices in Figure 2, and one having just one light emitting device in Figure 3).

Art Unit: 2875

4. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

5. The disclosure is objected to because of the following informalities: reference character "**25**" has been used to designate a dotted circle (page 2, line 16) and a transparent material (page 2, line 16). Also note the phrase "the area" repeated twice in the same line.

Appropriate correction is required.

6. The Examiner respectfully suggests amending line 16 of page 2 to read:

dotted circle 25 show ~~the area~~ the area to be filled with the
transparent material-25. Furthermore, the "a".

Claim Objections

7. Claim 4 is objected to because of the following informalities: the phrase "each one of the light emitting device" implies more than one light emitting device, however, Claim 1 recites only "at least one". Appropriate correction is required.

8. The Examiner respectfully suggests amending claims 4 as follows:

CLAIM 4. The light bulb as described in claim 2, wherein ~~each~~
~~one of~~ said at least one light emitting device has two electrodes
connected to one of said parallel horizontal plates and one of said parallel
vertical walls respectively, and said horizontal plates and said vertical
walls are insulated from each other

9. Claim 7 is objected to because of the following informalities: the phrase "partially protruded outside back-filled material for increasing heat removal" is not clear.
Appropriate correction is required.

10. The Examiner respectfully suggests amending claims 7 as follows:

CLAIM 7. The light bulb as described in claim 5, wherein said
metal grid is partially protruded outside ~~back-filled~~ said transparent
material for increasing heat removal.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

11. Claims 1, 2 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by WALKER (U.S. Pat. 1,246,509).

12. WALKER discloses a lamp having:

- **at least one light emitting device (as recited in Claim 1), Figure II, reference character B;**
- **a cup (as recited in Claim 1), Figure II, reference character A;**
- **the light emitting device being housed in the cup (as recited in Claim 1), as seen in Figure II;**
- **a grid (as recited in Claim 1), as seen in Figure II;**
- **the grid being made of metal (as recited in Claim 1), page 1, line 48;**
- **the grid being placed in the open end of said cup (as recited in Claim 1), as seen in Figure II;**
- **the grid serving as a radiator to dissipate the heat generated from the light emitting device (as recited in Claim 1), inherent;**

- **the grid serving as windows for transmission of light emitted from the light emitting device (as recited in Claim 1), as evidenced by Figure II;**
- **the grid including a matrix of parallel horizontal plates and parallel vertical walls (as recited in Claim 2), Figure II, reference characters C and D;**
- **each of the walls and plates having an outer surface facing the open end of the cup (as recited in Claim 2), as seen in Figure II;**
- **each of the walls and plates having an inner surface facing the light emitting device (as recited in Claim 2), as seen in Figure II;**
and
- **the light-emitting device being placed at the bottom of the cup (as recited in Claim 6), as seen in Figure II;**

13. Claims 1-5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by WALKER (U.S. Pat. 1,246,509).

14. WALKER discloses a lamp having:

- **at least one light emitting device (as recited in Claim 1), Figure 5, reference character F';**
- **a cup (as recited in Claim 1), Figure 5, reference character 14;**

- **the light emitting device being housed in the cup (as recited in Claim 1), as seen in Figure 5;**
- **a grid (as recited in Claim 1), Figure 5, reference character 30';**
- **the grid being made of metal (as recited in Claim 1), inherent;**
- **the grid being placed in the open end of said cup (as recited in Claim 1), as seen in Figure 5;**
- **the grid serving as a radiator to dissipate the heat generated from the light emitting device (as recited in Claim 1), column 4, lines 42 and 43;**
- **the grid serving as windows for transmission of light emitted from the light emitting device (as recited in Claim 1), as evidenced by Figure 5;**
- **the grid including a matrix of parallel horizontal plates and parallel vertical walls (as recited in Claim 2), Figure 5, reference characters 311', 312', 313' and 314';**
- **each of the walls and plates having an outer surface facing the open end of the cup (as recited in Claim 2), as seen in Figure 5;**
- **each of the walls and plates having an inner surface facing the light emitting device (as recited in Claim 2), as seen in Figure 6;**
- **at least one light emitting device being placed on the inner surface of the grid (as recited in Claim 3), Figure 6, reference character 21';**

- **the light emitting device having two electrodes (as recited in Claim 4), inherent;**
- **the two electrodes being connected to one of the parallel horizontal plates and one of the parallel vertical walls respectively (as recited in Claim 4), column 5, lines 17-24;**
- **the horizontal plates and the vertical walls being insulated from each other (as recited in Claim 4), inherent;**
- **the cup being back-filled with transparent material (as recited in Claim 5), Figure 5, reference character 22';**
- **the transparent material being selected from the group consisting of glass and transparent polymer composite (as recited in Claim 6), inherent, as such material is standard;**
- **the grid partially protruding outside transparent material for increasing heat removal (as recited in Claim 7), as seen in Figure 6.**

Response to Arguments

15. Applicant's arguments with respect to Claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

16. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

17. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ismael Negrón whose telephone number is (703) 308-6086. The examiner can normally be reached on Monday-Friday from 9:00 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea, can be reached on (703) 305-4939. The facsimile machine number for the Art Group is (571) 273-8300.

Art Unit: 2875

19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, go to <http://pair-direct.uspto.gov>. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) toll-free at 866-217-9197.



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